

## INFORMATION

**E-SERIES POWER PLANT MKII**

The core of the E-series is the POWER PLANT MK II, an integrated amplifier which simply exudes power and offers wonderful sound. In the tradition of our legendary transistor and valve output stages, we developed the pre-amplifier for optimum sound quality, neutrality and ultra-wide dynamic range. The use of the latest audio operational amplifiers (op-amps) on separate, voltage-stabilised circuit boards (OAD) provides a further substantial improvement in sound quality. Naturally the unit features a two-stage volume control with ALPS precision potentiometer for a wide overload margin and good signal-to-noise ratios, plus gold-contact relays for the input select switches to guarantee freedom from distortion and noise, and an oversized mains power supply section with a torroidal transformer for low interference and separate buffering of each stage; this ensures that the amplifier has huge energy reserves - just as you would expect from T+A High-End equipment. A Flat switch is provided, so that the sophisticated tone controls and loudness function can be removed completely from the signal path when desired. The power output stages are switch-mode circuits ("digital output stages"), which generate the output signal as a large number of very brief positive and negative signals. These switch-mode output stages were developed entirely in-house, in contrast to "off-the-peg" integrated ready-made IC amplifiers, and are of discrete construction, equipped with the latest ultra-fast MOSFET transistors and high-energy intelligent driver modules.

***External connection***

The amplifier features five high-quality inputs which are selected using gold-contact relays, and one of them can be fitted with the internal R-series PHE MM or PHE MC module to provide a phono input (earth terminal fitted as standard). REC OUT and PRE OUT are also present. The solid metal loudspeaker terminals are gold-plated and devoid of ferro-magnetic metals. An RS 232 socket makes it possible to install software updates, and a control interface is also present. A new high-performance "E-Link" bus system was developed for the E-series, and this passes all commands from the F 100 remote control handset between the devices connected to the system. If the POWER PLANT MKII is operated without the CD PLAYER or MUSIC PLAYER MKII, a separate FBS 100 remote control handset is required in order to control it remotely. In this case the E 2000 IR receiver is connected to the RC IN socket.

***Technical highlights***

The basic principle upon which our new amplifier is based is known as the PWM output stage (PWM = Pulse Width Modulation), with a modulator of

analogue construction. The output stages feature an analogue feedback circuit, which eliminates any problems caused by voltage fluctuations in the mains power supply,



and thereby excludes the possibility of signal distortion induced by the power supply voltage; this is a problem which is otherwise unavoidable with amplifiers exploiting pure “forward concepts”. However, the level of feedback is relatively low, and is also frequency-dependent (stronger in the bass, where large currents flow, and diminishing in the mid-range area). The net result is a very controlled, fluent sonic image which never tends towards edginess, combined with an accurately contoured and well-defined bass. The liveliness and musicality of this concept is quite extraordinary. If designed correctly, digital output stages can sound simply wonderful, and at the same time they can also generate enormous power combined with significantly improved efficiency and therefore little waste heat. Such amplifiers are capable of driving even power-hungry loudspeakers effortlessly, since the POWER PLANT supplies peak currents of up to fifty Amps.

**Specifications:**

<b>Audio</b>	4 Ohms	8 Ohms
<i>Nominal output per channel</i>	2 x 240 Watt	2 x 140 Watt
<i>Peak output per channel</i>	2 x 380 Watt	2 x 210 Watt
<i>Frequency response</i>	+ - 3dB: 1 Hz - 60 kHz	
<i>Total harmonic distortion</i>	< 0,005 %	
<i>Intermodulation</i>	< 0.005 %	
<i>Channel separation</i>	> 80 dB	
<i>Inputs</i>	5 x Highlevel 250 mV / 20 kOhm	
<i>As an option</i>	plug-in MM or MC phono module	
<i>Outputs</i>	Preamp, Headphone > 50 Ohm, Tape 250 mV	

<i>Dimensions (H x H x D)</i>	12 x 44 x 39 cm
<i>Weight</i>	13 kg
<i>Remote control</i>	via MUSIC-Player / CD PLAYER or as an option
<i>Interface</i>	E-Link and RS232 for software update and contro
<i>Finishes</i>	black case with silver side-panels silver case with black side-panels

*We reserve the right to alter technical specifications*

New bi-directional remote control | F